

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
1232-4532SERIAL NO.
09/287,406

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

APPLICANT

Hiroyuki Shinbata

FILING DATE

April 6, 1999

GROUP ART UNIT

TBA

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
dh	4,992,663	2/12/91	Takeo	250	587	
dh	5,081,580	1/14/92	Takeo	250	582	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
dh	2-42436	2/13/90	Japan (corresponding to U.S. Patent 4,992,663)	250	587		X
dh	2-66683	6/3/90	Japan (corresponding to U.S. Patent 4,992,663)	250	587		X
dh	2-1080	1/5/90	Japan (corresponding to U.S. Patent 5,081,580)	250	582		X
							X

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)

dh	U.S. Patent Application Serial No. 09/154,805 filed 9/17/98

EXAMINER

Barry Chack

DATE CONSIDERED

9/02/2002

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.